Concept Note

Country-level Capacity building training for Kyrgyzstan on the use of geospatial information and tools for wildfire detection

Venue: Virtual meeting via Microsoft Teams
24 December 2021
14:00 - 16:00 hrs. (Bishkek time) / 15:00 - 17:00 hrs. (Bangkok Time)

Background:

Despite the advances in availability and quality of space-derived information, several gaps, and challenges, however, remain for their effective use at the regional and national levels. A lack of capacity and resources in terms of finance, space-derived data, knowledge and expertise, specific tools, and well-trained human resources is a common problem. Finding hotspots of forest fires early has become a critical challenge for many countries, especially in North and Central Asia. Early detection enables quick decisions for risk reduction, preparation, and early mitigation.

Access to the space-derived data and relevant portal for web-interface-based near-real-time monitoring of fire hotspots has been requested by officials from Kyrgyzstan and several Central Asian countries. Therefore, the Siberian Center of the State Research Center for Space Hydrometeorology "Planeta" (SRC "Planeta") with support of ESCAP created geoportal “Fire monitoring in the Kyrgyz Republic” which is based on "Meteo-Siberia” geoportal used at the SRC “Planeta”. The data generated from satellites allows an operator to receive information on potential forest, land, and large-scale industrial fires with minimal latency. By getting access to the data and relevant portal, government users will benefit by being able to respond to emergency situations by dispatching fire brigades, conducting evacuations, and issuing early warning information in a timelier manner. It will also allow users and decision-makers to delineate burnt areas to conduct a damage assessment.

However, in order to tailor gaps and challenges in fire monitoring and early warning issues, there is a need to understand and find the current situations and capacity of Kyrgyz officials on the use of geospatial information, data, and improvement of the analytical tools for early warning of a transboundary disaster such as wildfire.

In this regard, the country-level capacity building training is being organized for officials from Kyrgyzstan, to provide country-level discussion on the needs of Kyrgyzstan on the monitoring hotspots of fire through geospatial information, data, and analytical tools derived from satellite imagery.

Online country-level capacity building training

Date and Venue

- Venue: Virtual via Microsoft Teams
  ✓ Dates: 15:00 - 17:00 (Bangkok Time), 24 December 2021 (two-hour-long sessions)
Objective:

The main objective of the workshop is to find out the country's needs for the use of geospatial information and tools for wildfire detection. To obtain this goal, the further topics have to be discussed:

✓ The use and tailoring of new geoportal “Fire monitoring in the Kyrgyz Republic”.
✓ Organizations' needs with experiences and resources in the use of geospatial information and tools for fire monitoring.
✓ The cooperation and partnership countrywide for access to the use of geospatial information and tools for wildfire detection

Structure of the Meeting

Overview of the fire monitoring in the Kyrgyz Republic and the use of geospatial information and tools for fire detection. To build discussions on the needs of organizations’ capacity in the utilization of different tools for fire monitoring.

Organizer and Participating Experts:

- United Nations Economic and Social Commission on Asia and the Pacific (UNESCAP),
- Ministry of Emergency Situations of Kyrgyz Republic.
- Invited participants: representatives of Kyrgyzstan government officials from Ministry of Emergency Situations; Kyrgyzhydromet; GIS and Remote Sensing specialists; ICT specialists; representatives of academia.

Contact Information:

Mr. Keran Wang
Chief, Space Applications Section
ICT and Disaster Risk Reduction Division (IDD) / United Nations ESCAP
Email: wangk@un.org

Ms. Kelly Hayden
Economic Affairs Officer
ICT and Disaster Risk Reduction Division (IDD) / United Nations ESCAP
Email: haydenk@un.org

Ms. Nina Moiseeva
Consultant
ICT and Disaster Risk Reduction Division (IDD) / United Nations ESCAP/
Email: moiseewa@scanex.ru, nina.moiseeva@un.org

Mr. Daurbek Sakyev
Consultant
ICT and Disaster Risk Reduction Division (IDD) / United Nations ESCAP/
Email: daur_sakyev@mail.ru

Ms. Nazira Alimzhanova
Individual Contractor
ICT and Disaster Risk Reduction Division (IDD) / United Nations ESCAP/
Email: nazira.alimzhanova@un.org
# AGENDA

24 December 2021 (Bangkok time)

<table>
<thead>
<tr>
<th>15:00 – 17:00</th>
<th>Discission on the use of geospatial information and tools for wildfire detection</th>
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<tr>
<td></td>
<td>Moderated by Mr. Daurbek Sakyev, Consultant, SAS, IDD, ESCAP</td>
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<tr>
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<td>- Discussion on the use of geospatial information and tools for hotspots of fires early warning in Kyrgyzstan</td>
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<td>- All participants</td>
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<td>- Summary and closing by</td>
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<td></td>
<td>- Mr. Daurbek Sakyev, Consultant, SAS, IDD, ESCAP</td>
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